

ELECTRONIC TECHNOLOGY

This recommended list is based upon a classroom size of 25 students. All costs are estimated and should be adjusted and verified with current quotes. No specific equipment vendor or brand names are endorsed due to various possibilities, but school districts should consult with stakeholders to ensure industry-recognized equipment and software are purchased. The intent of this list is to provide school districts with guidance on the equipment needed to cover the state standards for an Electronic Technology program.

CLASSROOM EQUIPMENT**TOTAL: \$17,910**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Workstations w/chairs	\$400	\$10,000
1	Teacher Workstation w/chair	\$400	\$400
1	Teacher Computer (enhanced graphics/memory/storage, download capable)	\$2,500	\$2,500
1	Presentation Equipment (e.g., interactive whiteboard (IWB), or other interactive display system with software and accessories)	\$3,000	\$3,000
1	Networkable Laser Printer (black/white or color)	\$400	\$400
1	Vertical File Cabinet (lockable)	\$330	\$330
2	Storage Cabinets (36" x 12" x 72") (lockable)	\$300	\$600
2	Bookcases (36" x 12" x 42")	\$115	\$230
2	White Boards (4' x 8')	\$110	\$220
1	Fire Extinguisher	\$130	\$130
1	First Aid Kit	\$100	\$100

PROGRAM EQUIPMENT**TOTAL: \$97,900**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Computers (enhanced graphics/memory/speed, download capable)	\$2,500	\$62,500
1	Technology Storage/Charging System (optional)	\$2,000	\$2,000
3	Waveform Analyzer	\$2,000	\$6,000
1	Color LCD 4-channel Oscilloscope	\$2,000	\$2,000
3	Digital, Analog, RF and Audio Signal Generators	\$2,000	\$6,000
6	Analog Oscilloscopes	\$1,000	\$6,000
6	LCR [inductance, capacitance, resistance] Meters	\$1,000	\$6,000
1	Storage Cabinet for Sanitized Eye Protection Equipment	\$800	\$800
6	Video Signal Generators	\$600	\$3,600
6	Mounted Soldering Stations	\$500	\$3,000

INSTRUCTIONAL MATERIALS

TOTAL: \$3,000

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Textbooks (Approved by NDE)	\$100	\$2,500
1	Teacher Textbook Edition and Resources	\$500	\$500

INSTRUCTIONAL SUPPLIES

TOTAL: \$16,850

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Multimeters	\$300	\$7,500
2	Printed Circuit Board (PCB) Shears	\$150	\$300
15	Work Lamps	\$50	\$750
Varies	Tools and Equipment (banana clips, high quality precision screwdriver kits, crimp tools, ESD [electrostatic discharge] safe tweezers, ESD wrist straps, anti-static mats, various pliers, shear cutters, wire strippers, chip extractors, nibbling tool, heat shrink gun, etc.)	\$3,000	\$3,000
Varies	Measuring Devices (dial and digital calipers, capacitor testers, etc.)	\$1,500	\$1,500
Varies	Supplies (soldering materials, breadboards, circuit board material, transistors, resistors, integrated circuits, switches, etc.)	\$1,500	\$1,500
Varies	Circuit Board Holders (various sizes)	\$1,500	\$1,500
Varies	Computer Accessories (cases, covers, etc.) (optional)	\$500	\$500
Varies	Personal Protective Equipment (PPE) (gloves, glasses/goggles, etc.)	\$300	\$300

OTHER

TOTAL: \$300

QTY	ITEM DESCRIPTION	UNIT	TOTAL
1	Occupational Safety and Health Administration (OSHA) Instructor Training	\$300	\$300

CATEGORY TOTALS:

CLASSROOM EQUIPMENT	\$17,910
PROGRAM EQUIPMENT	\$97,900
INSTRUCTIONAL MATERIALS	\$3,000
INSTRUCTIONAL SUPPLIES	\$16,850
OTHER	\$300
ESTIMATED PROGRAM TOTAL	\$135,960